

Fig. 1

App No.: Not Yet Assigned

Docket No.: ADY-009

Inventor: Cydney C. Brooks

Title: METHODS FOR TREATING DIABETES AND INSULIN
RESISTANCE

FHOS mRNA Expression (n=3 RT-PCRs)

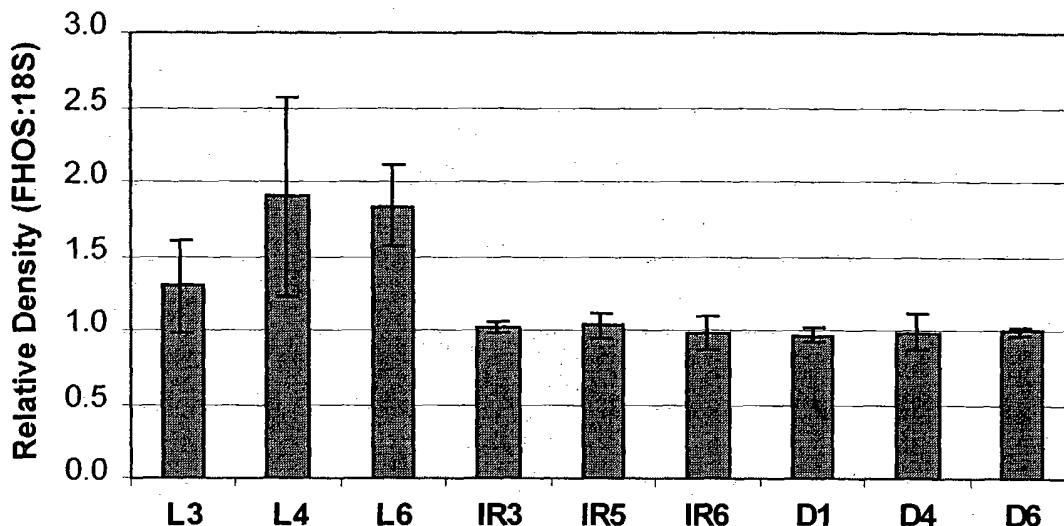
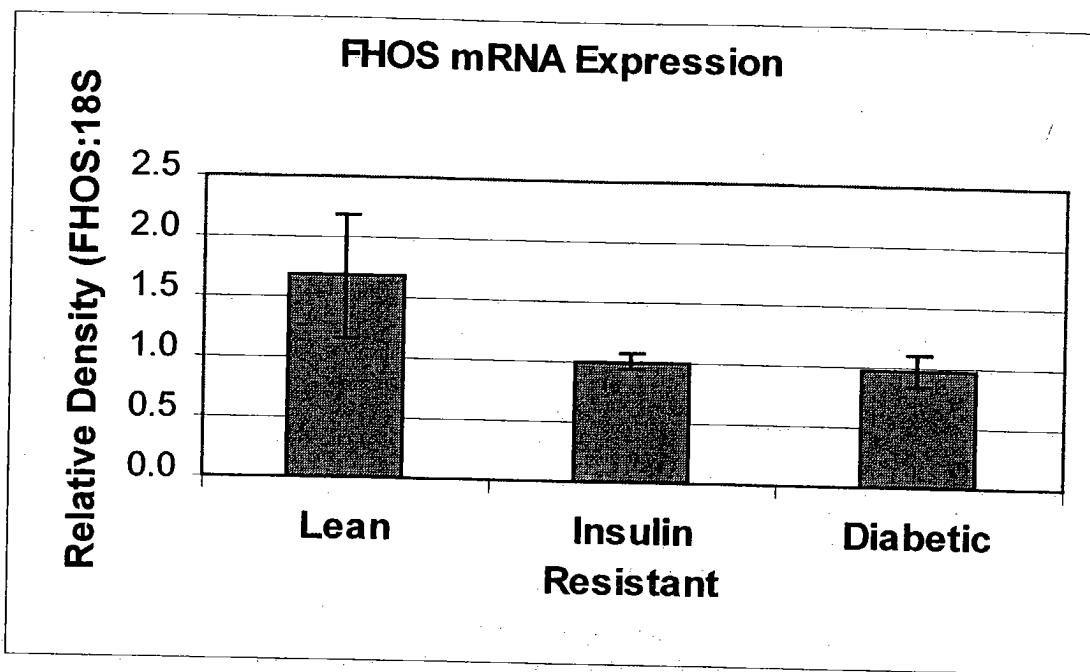


Fig. 2

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1 TGAGCCGGCC GCAGAGCCAT GGCAGGGCGGG GAAGACCGCG GGGACGGAGA GCCGGTATCA
61 GTGGTGACCG TGAGGGTGCA GTACCTGGAA GACACCGAAC CCTTCGCATG TGCCAACCTT
121 CGGGAGCCGC GCCGGGCCCG CACCTGCAGC CTGGACGGGG CGCTGCCCTT GGGCGCCAG
181 ATACCCCGCGG TGCACCGCCT GCTGGGAGCG CCGCTCAAGT TGGAGGATTG TGCTCTGCAA
241 GTGTCTCCCT CGGGATACTA CCTGGACACC GAGCTGTCCC TGGAAAGAGCA GCGGGAGATG
301 CTGGAGGGCT TCTATGAAGA GATCAGCAA GGGCGGAAGC CCACGCTGAT CCTTCGGACC
361 CAGCTCTCTG TGAGGGTCAA CGCTATCTG AAAAGCTGT ATAGCTCCAG TGGTCTGAG
421 CTCCGCCGCT CCCTCTTCTC ACTGAAGCAG ATCTTCCAGG AGGACAAAGA CCTGGTGCCT
481 GAATTGTGC ATTCAAGAGG GCTGAGCTGC CTGATCCGTG TGGGTGCTGC TGCGACCAC
541 AACTACCAGA GCTACATCCT TAGAGCGCTC GGCCAGCTGA TGCTCTTTGT GGATGGAATG
601 CTGGGGTGG TGGCCCACAG TGACACTATT CAGTGGCTGT ACACATTGTG TGCCAGCCTG
661 TCCCCTTGG TGGTGAAGAC AGCCCTGAAG CTGCTGTTGG TGTTGTAGA ATACTCCGAA
721 AACAAACGCAC CGCTGTTCAT CGGTGAGCTG AACTCTGTGG CCACGACCAC CGGTGCTCCT
781 CCCTGGGCCA ATCTGGTGTG CATCTGGAG GAGAAGAATG GCGCTGACCC TGAGTTGTTG
841 GTGTACACGG TCACCCCTCAT CAACAAGACG CTGGCGGCG TCCCAGGACCA GGACTCCTC
901 TACGATGTGA CGGATGCACT GGAGCAGCAG GGCATGGACA CGCTGGTCCA GCGCCACCTG
961 GGCACTGCGG GCACTGACGT CGACCTGCGC ACGCAGCTTG TGCTCTACGA GAACGCCCTG
1021 AAATTGGAGG ATGGAGACAT CGAAGAAGCC CAAGGGCGCTG GTGGGGCGCG GGAACGACGA
1081 AAGCCTTCTT CTGAGGGAGGG CAAGAGGAGC CGCCGTTCTC TGGAAGGCGG GGGCTGCC
1141 GCGCGTGCCTT CGGAACCTGG CCCCACAGGC CCCGCCTCAC CGGTAGGCC CACCTCTCC
1201 ACCGGCCCCG CCCTGCTGAC AGGCCCCGCC TCCAGCCCTG TGGGCCCTCC CTCCGGTCTC
1261 CAAGCTTCAG TGAACCTTT TCCTACCATC TCTGTGGCAC CCTCAGCTGA CACCTCCAGC
1321 GAGAGGAGCA TCTACAAAGC CCGGTTCTG GAGAATGTGG CGGCAGCAGA AACAGAGAAG
1381 CAGGTTGCGC TGGCCCAGGG CGGGCAGAG ACACTTGCCG GGGCCATGCC CAATGAGGCG
1441 GGTGGACACC CAGATGCCCG GCAACTCTGG GACTCCCCAG AGACAGCCCC TGCAAGCAGA
1501 ACACCCAGA GCCCTGCCCG CTGTGCTCTG CTCCGGGCC AGCGAAGCCT TGCAACAGAG
1561 CCCAAGGAGC CACTGATACC AGCAAGCCCC AAGGCTGAGC CCATCTGGGA GCTCCCTACC
1621 CGTGCACCCA GGCTCTCTAT TGGGGACCTG GACTTTTCAG ATCTAGGGGA GGATGAAGAC
1681 CAGGACATGC TGAATGTAGA GTCTGTGGAG GCTGGGAAAG ACATCCCAGC TCCCTCACCC
1741 CCACTGCCCG TGCTCTCGGG AGTACCCCCC CCTCCCCCAC TTCCACCTCC CCCACCCATC
1801 AAAGGCCCCCT TCCCACCAACC TCCACCTCTA CCTCTGGCTG CCCCTCTTCC CCATTCACTG
1861 CCTGACAGCT CAGCCCTCCC CACTAAGAGG AAGACAGTAA AACTTTCTG GCGTGACGTG
1921 AAGCTGGCTG GGGGCCATGG AGTCTCTGCA AGCCGCTTTG GGCCCTGCGC CACCCCTGG
1981 GCTTCACTGG ACCCTGTCTC AGTGGACACG GCCCAGCTGG AACACCTCTT TGAGTCTCGT
2041 GCCAAAGAGG TGCTGCCCTC CAAGAAAGCT GGAGAGGGCC GCCGGACAAT GACCACAGTG
2101 CTGGACCCCA AGCGCACGAA CGCCATCAAC ATCGGCCCTAA CCACACTGCC ACCTGTGCAT
2161 GTCATTAAGG CTGCTCTGCT CAACTTGAT GAGTTGCTG TCAGCAAGGA TGGCATTGAG
2221 AAGCTACTGA CCATGATGCC CACGGAGGAA GAGCGGCAGA AGATTGAGGG AGCCAGCTG
2281 GCCAACCTCG ACATACCCCT GGGCCAGCC GAGAACTTCC TGATGACTCT TGCCCTCATT
2341 GGCAGGCCCG CTGCTCGTCT ACAACTCTGG GCCTTCAAGC TGGACTATGA CAGCATGGAG
2401 CGGGAAATTG CTGAGCCACT GTTGACCTG AAAGTGGGTA TGGAAACAGCT GGTACAGAAT
2461 GCCACCTTC GCTGCATCCT GGCTACCCCTC CTAGCTGTGG GCAACCTCTT CAATGGCTCC
2521 CAGAGCAGCG GCTTGTAGCT GAGCTACCTG GAGAAGGTGT CAGATGTGAA GGACACGGTG
2581 CGTCGACAGT CACTGCTACA CCATCTCTGC TCCCTAGTGC TCCAGACCCG GCCTGAGTCC
2641 TCTGACCTCT ATTCAAGAAAT CCCTGCCCTG ACCCGCTGTG CCAAGGTGGA CTTTGAACAG
2701 CTGACTGAGA ACCTGGGGCA GCTGGAGCGC CGGAGCCGGG CAGCCGAGGA AAGCCTGCC
2761 AGCTTGGCCA AGCATGAGCT GGCCCCAGCC CTGCGTGCCTC GCCTCACCCA CTTCCTGGAC
2821 CAGTGTGCCG GCCGTGTTGC CATGCTAAGG ATAGTGCACC GCGGTGCTG CAATAGGTT
2881 CATGCCTTCC TGCTCTACCT GGGCTACACC CCGCAGGGGG CCCGTGAAGT GCGCATCATG
2941 CAGTTCTGCC ACACGCTGCG GGAATTGCG CTTGAGTATC GGACTTGCCT GGAACGAGTG
3001 CTACAGCAGC AGCAGAAAGCA GGCCACATAC CGTGAGCGCA ACAAGACCCG GGGACGCTG
3061 ATCACCGAGA CAGAGAAAGT CTCAGGTGTG GCTGGGGAAAG CCCCCAGCAA CCCCTCTGTC
3121 CCAGTAGCAG TGAGCAGCGG GCCAGGCCGG GGAGATGCTG ACAGTCATGC TAGTATGAAG
3181 AGTCTGCTGA CCAGCAGGCT TGAGGACACC ACACACAATC GCCGCAGCAG AGGCATGGTC
3241 CAGAGCAGCT CCCCAATCAT GCCCCAGCTG GGGCCCTCCA CTGCATCCCC AGAAGAACCC
3301 CCAGGGCTCCA GTTTACCCAG TGATACATCA GATGAGATCA TGGACCTTCT GGTGCAGTCA
3361 GTGACCAAGA GCAGTCCTCG TGCCTTAGCT GCTAGGGAAAC GCAAGCGTTC CCGCGGCAAC
3421 CGCAAGTCTT TGAGAAGGAC GTTGAAGAGT GGGCTCGGAG ATGACCTGGT GCAGGCAGT

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Fig. 3B

3481 GGACTAAGCA AGGGTCCTGG CCTGGAGGTG TGAAGGTGCT GTATCCCGGA AATCTATCTG
3541 GACCCTGGAC TGCAGTGCAG GAGATGACAG AGTGAGGAGG GCCCAGAGCA GAATTCTGGC
3601 CCCAGAACTC TGTGCCAGG AGCCATGCCT TGAGCAGTAT TAGCCGTGTG TGTATGCATG
3661 TGAGTGTGTG TGTATGTGTG TGTGTGCATG CATATGCATG TGCATGTGTG TGAGCTCCTT
3721 GAACGCACGG AGCAAAATAA AATTTCTTA GCTAATCCA AAAAAAAA AAAAA

1 MAGGEDRGDG EPVSVVTVRV QYLEDTDPFA CANFPEPRRA PTCSDLGALP LGAQIPAVHR
61 LLGAPLKLED CALQVSPSGY YLDTELSLEE QREMLEGFYE EISKGRKPTL ILRTQLSVRV
121 NATLEKLYSS SGPELRRSLF SLKQIFQEDK DLVPEFVHSE GLSCLIRVGA AADHNYQSYI
181 LRALGQLMLF VDGMLGVVAH SDTIQWLYTL CASLSRLVVK TALKLLLVFV EYSENNAPLF
241 I RAVNSVATT TGAPPWANLV SILEEKNGAD PELLVYTWT INKTIAALPD QDSFYDVTDA
301 LEQQGMDTLV QRHLGTAGTD VDLRTQLVLY ENALKLEDGD IEEAPGAGGR RERRKPSSEE
361 GKR SR SLEG GGC PAR APEP GPTGPASPVG PTSSTGPALL TG PASS PVGP PSGLQASVNL
421 FPTISVAPSA DTSSER SIYK ARFLENVAAA ETEKQVALAQ GRAETLAGAM PNEAGGHHPDA
481 RQLWDSPETA PAART PQSPA PCVLLR AQR S LAPEPK EPLTRAPRLS
541 IG DLD FSDLG EDEDQDM LVN ESVEAGKDIP APS PPLPLS GV PPPP PLPP PPPI KGP FPP
601 PPPL PLA APL PH SVPD SSAL PT KRKT VKL F WR DVK LAG GH GVS ASR FG PC ATL WAS LD PV
661 SVDTARLEHL FESRAKEVLP SKKAGEGR RT MTTV LDP KRT NAINIGL TTL PPV HVI KA AL
721 LNFDEF AVSK DGIEKLLT MM PTEE ERQ KIE GA QL ANP DIP LG PAENFL MT LASIGG LAAR
781 LQLWAFKLDY DSMEREIAEP LF DLK VGMEQ LVQNAT FRCI LAT LLAVGNF LNGSQSSGFE
841 LS YLEK VSDV KDT VRR QSL HHLCS LVL QT RP ESSD LYSE IP ALTRCA KV DFEQLTENLG
901 QLERRSRAAE ESLRSLAKHE LAP ALRARLT HF LDQCARRV AMLRIVHRRV CNRF HAFL LY
961 LGYTPQAARE VRIMQFCCTL REFALEYRTC RER VLQQQK QATY RERN KT RGRM ITETEK
1021 FSGVAGEAPS NPSVPVAVSS GP GRGDADSH ASMKSLLTSR LED THNRRS RGMVQSSSPI
1081 MPTVGPSTAS PEEPPGSSL P SDTSDEIMDL LVQSVTKSSP RALA ARERKR SRGNRKS LRR
1141 TLKSGLGDDL VQALGLSKGP GLEV